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PUBLICATIONS OF

H. D. MILLS

(Published and Unpublished)

1952 -- 1984

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Abacus Arithmetic	Abacus	Arithmetic	3/24/82	unpublished
Abstract Machines	Machines	HW & SW comb.	9/23/77	unpublished
Abstract Semantics for Sequential Programs	Seq. Progrmg.	Semantics	00/00/00	unpublished
Accessibility of Satellite Systems to Ground Station Networks	Satellite Sys.	Networks	11/15/62	RCA, Adv. Mil. Sys. Def. Elec. Prod.
Active Approach to Design Inspections/ Reviews, An	Design inspection	Design reviews	00/00/00	unpublished foils
Algebras of Programs and Modules	Programs	Algebra	3/17/78	unpublished
Advanced Studies in Software Productivity	Software development	Software engr.	10/02/78	unpublished
Algorithms in Character Recognition Systems	Character Reg. Sys.	Algorithms	2/29/72	unpublished
Allocation of Promotional Effort Among Several Products	Marketing	Promotional Efforts	10/00/58	Market Res. Corp. of America
AM/I Index Dynamics, A Note on	AM/I	Entry insertions	09/00/69	unpublished
Anatomy of a Program (with V. R. Basili)	Programs		00/00/00	unpublished
Analytic Techniques for the Study of World Wide Air Line Competition	Air Line Competition	Mathematical Model	1966	Mathematica
APL as a Toy Example of the IA	IA	APL	4/22/76	unpublished
Application of Formal Grammar to the New York Times Thesaurus, An	NY Times Thesaurus	Applic. programming	02/27/70	unpublished

Asynchronous System Design	Syst. Design	Asynchronous	10/00/70	unpublished
Artificial Intelligence	Artif. Intel.		4/15/66	unpublished
Art of Asking the Right Questions, The	Management		00/00/00	Mathematica
Automatic Analysis of Computer Programs, On the	Exec. Seq.	Algorithms	5/22/67	IBM Center for Explor. Studies
Automatic Analysis of Roundoff Errors	Roundoff Errors	Analysis	00/00/00	IBM Center for Explor. Studies
Automatic Analysis of Roundoff Erorrs, The	Roundoff errors	OS/360 PL/I program	06/09/67	Center for Explor. Studies

Baseball Luck: 'Blaise Pascal'	Baseball	Pascal	00/00/00	unpublished
Basic Operating System	Operating system		00/00/00	unpublished
Basis for a Proprietary Software Strategy, A	Software development	Systems design	02/00/69	unpublished
Basis for Long Range Software Strategy, A	Software complexity	Software technology	08/06/68	unpublished
Binary Bracket	Binary bracket		10/00/74	unpublished
Binary Search	Binary search		1983	unpublished
Block-Structured Assembly Language	Assembly language	Block structure	03/00/70	unpublished
Boehm, B.W., comments on Software Engineering Economics	Boehm, B.W.	SW Engr.	01/20/82	
Boltzmann Equations	Boltzmann Eq.	Ion exchange	05/28/62	unpublished
Bracket Search Problem	Binary search		1974	unpublished
Brief Outline of the Data Technician's Syllabus	Data technician	0\$/360	00/00/00	unpublished
Buffer Driven Finite State Machine - MDP	Buffer	Finite state machine	01/24/77	unpublished
Business Case for the IBM Information Automat, A	Information Automat	Hardware system	10/00/73	unpublished
Buying and Selling – Advertising and Competitive Analysis	Competition	Advertising	06/14/83	unpublished

Case Against GOTO Statements in PL/I	GOTO statements	PL/I	04/00/69	unpublished
Certified MTBF for Clean Room Software Development, A	Cleanroom	Certified MTBF	01/17/80	unpublished
Challenges of Mathematical Research Into the Foundations of Statistical Thought	Mathematical research	Statistics	09/18/56	GE, prepared for The Western Mass. Soc. for Quality Con- trol, Springfield, Mass.
Character Recognition - The End Game	Character recognition	Test tree	05/31/72	unpublished
Character Recognition - Necessary Problems in the End Game	Character recognition	Algorithm	09/26/72	unpublished
Chief Programmer Teams w/F. T. Baker	Chief programmer teams	Programming	12/00/73	Datamation, Dec. 1973
Chief Programmer Teams: Principles and Procedures	Chief programmer teams	Programming	06/00/71	IBM/FSD Publ., G'burg
Christian in the World of Science, The	Christian and science	Teleportation	11/03/65	unpublished
Clean Room Software Development	Cleanroom	Reliability	01/21/80	unpublished
Cleanroom Software Development	Cleanroom	Reliability	03/23/84	pres. at 7th Intl. Engr. Conf., Orlando, FL
Clean Room Software Development Note	Cleanroom	MTBF	06/27/79	unpublished
Coach Who Wouldn't Punt, A	Football	Punt	09/25/80	unpublished
Code Certification Experiment w/J. S. Hurley, and J. Misra	Reading technology	Structured programming	06/17/70	unpublished

Coin Weighing Problems, On	Coin weighing	Probability	05/14/64	unpublished
Combinatorial Analyses of Process Synchronization w/J. M. Lounsbery	Synchronization	Concurrent processes	08/00/83	unpublished
Combinatorial Approximation, On	Approximation	Integers	00/00/00	unpublished
Command Software	05/360	Command/Control market	09/16/64	unpublished
Competitive Pricing in Inelastic Markets	Pricing	Inelastic markets	03/27/56	GE, unpublished
Complexity of Programs, On the	Program complexity	Reliability	12/00/72	unpublished
Complexity of Programs, The	Program complexity	Complexity measured	05/00/72	unpublished
Computer Programming and Software Engineering	Programming	Software engineering	01/00/80	unpublished
Concept of 'Expected Marginal Revenue' and Some Applications	Revenue, marginal	Production	08/21/57	NY, unpublished
Concurrent Processing	Concurrent processing	Processing structure	08/29/77	unpublished
Constructing Loop Programs, On	Concurrent processing	Loop block	12/10/80	unpublished
Consumer Market Dynamics	Marketing	Math. techniques	00/00/58	unpublished
Contracting Principles for Software w/F. T. Baker	Programming	Specification	03/00/75	unpublished
Conversion of Flowchart Programs into Structured Form, The	Programming	Structured programming	09/03/76	unpublished
Cooperation with Incomplete Information	Games	Math. techniques	12/00/81	unpublished

Correctness Illustrations - Samples of Correctness Proofs	Correctness proofs	Math. techniques	1973?	unpublished
Correctness of Programs and Modules, The	Correctness	Math. techniques	12/05/78	unpublished
Criteria for Scheduling a Job Shop	Job shop	Scheduling	06/16/55	NY, unpublished
Crossword Numbering	Crossword puzzle	Programming	00/00/00	unpublished
Curriculum Development, On Some Personal Experiences in	Curriculum develop.	Univ. courses	00/00/00	unpublished

Data Design	State machines	Modules	00/00/00	unpublished
Data Management Ideas in High Performance Systems Software	Operating system dev.	Programmer prod.	09/00/69	unpublished
Data Processing Module - A Proposed Core Concept for CIS-4,5	Data processing module	Black box	05/27/82	unpublished
Data Processing Systems as State Machines	State machines	Data processing	09/23/77	unpublished
Decentralized Ordering Systems	Ordering system	System model	06/00/60	Mathematica, reprinted from Navy Supply System Research Study 1 (NONR-2928(00))
Definitional Text in Structured Programming w/R. C. Linger	Structured progrmg	Definitional text	03/25/75	unpublished
Descriptions of Mathematical Logic, The	Mathematical logic	Propositions	00/00/00	unpublished
Design Automation	Black box/clear box	Automath	10/28/83	unpublished
Design of High Performance Software	Software design	Control structures	09/13/78	FSD Employee Educ. Seminar Westlake foils
Design to Cost Programming	Design to cost	Structured programming	08/05/75	unpublished
Design to Cost Software Development	Design to cost	Software development	01/17/77	unpublished

Design Translator (Semi-Automatic Compiler)	Compiler, semi-auto.	Data processing	07/01/77	unpublished
Developing Electronic Systems with Certifiable Reliability w/ M. Dyer	Certifiable reliab.	Systems development	06/00/82	pres. Dyer, NATO meeting, Norwich, England, 7/19-31/82 pres. Mills, SW Reliability Measurements Working Group, New Orleans, 1/26/83
Developing Programming Measurements	Programming, lg. scale	Management	09/00/68	unpublished
Developing Software Engineers in Industry	Software engineers	Math. techniques	05/07/81	pres. panel, NCC'81, Chicago
Development of Large Reliable Programs, On the	Program reliability	Structured programming	04/00/73	Proc. IEEE Symp. on Computer Software Reliability, 4/73
Development of Systems of Men and Machines, On the	Systems development	Programming	09/25/74	Lecture Notes in Comp. Sci., Programming Methodology, 4th Info. Symp., IBM Germany
Development of Systems of People and Machine, On the	Systems development	Programming	00/00/75	Lectures Notes in Comp. Sci., 23, Programming Methodology, Heidelberg, 1975
Difference Between Design and Detailing, The	Program design	Design detailing	12/06/76	unpublished
Digital Number Systems - Problems and Standards	Digital systems	Math. techniques	08/00/73	unpublished
Distribution of Maximum Gap in a System of Coplanar Satellites, The	Satellite system	Math. techniques	00/00/00	unpublished

Duopoly Equilibrium Point, A	Economic equilibrium	Game theory	03/07/56	NY, unpublished
Dynamic Allocation in Modular Programs	Memory allocation	Modular programs	04/10/64	unpublished
Dynamic Programming on the Classical Optimum Lot Run Size Problem, Remarks on the Use of	Lot run problem	Programming	00/00/00	unpublished
Dynamics of New Product Campaigns	Marketing new prod.	Economics	10/00/64	Journal of Marketing Vol. 28, #4, Oct. 1964

ECCO Could Mean to IBM, What	ECC0	Computer systems	07/13/72	unpublished
ECCO - Evolutionary Command/Control Operations	ECC0	Computer systems	07/13/72	unpublished
Echelon Market Structures	Market structures	Math. technique	00/00/00	unpublished
Eight Bit Variable Floating Point Number System, An	Floating point	Numbering system	04/24/68	unpublished
Electronic Systems Testing and Reliability	Reliability	Systems testing	01/00/82	abstract for NATO Conf. London
Elements of Program Expression	SW specification	SW design	08/29/77	unpublished
Elevators	Elevators	Programming	07/00/74	unpublished
Equation i = i _o [exp (v-Ri) - 1], On The	Voltage	Math. technique	09/00/67	IBM Journal of Res. and Dev. Vol. 11, #5, Sept. 1967
Equilibrium Points in Finite Games	Equilibrium points	Game theory	06/00/60	J. Soc. Indust. Appl. Math. Vol. 8, #2, June 1960
Error Analysis for A Recursive Position Estimation Process	Estimation process	Error analysis	03/03/67	unpublished
Error Free Digital Algorithm for Systems of Linear Algebraic Equations	Algorithm	Algebraic equations	10/16/62	RCA, Adv. Mil. Sys., Def. Elec. Prod., Princeton
ESDP (Evolutionary Systems for Data Processing)	Processing systems	Data processing	00/00/00	unpublished
ESP (Evolutionary System Processing)	Processing systems	System development	05/00/64	IBM FSD publication

Estimating Programming Complexity	Program complexity	Program development	08/00/70	unpublished
Evaluating Chess Positions	Chess	Game theory	00/00/00	unpublished
Evolutionary Programming	Programming	Program development	10/20/76	unpublished
Evolutionary Programming - Creative Maintenance and Development	SW development	SW maintenance	08/30/76	unpublished
Evolutionary Systems for Data Processing w/M. Dyer	Source code	Programmer info sys.	11/02/66	pres. at Real Time Systems Seminar, Houston, Texas
Executing Numerical Algorithms in Parallel	Algorithms, numerical	Programming	08/00/68	unpublished
Extended Fixed Point Arithmetic	Fixed point numbers	Floating point numbers	06/10/65	unpublished
Extended Machine and the Automatic Coder, The	Extended machine	Automatic coder	12/19/69	unpublished
Extended PL/I Numberical Problem Solving Compiler, An	PL/I	Compiler	01/00/68	unpublished
Extending Newton's Method to Systems of Inequalities	Inequality systems	Math. techniques	08/08/67	pres. at Math. Optim. Conference, Princeton
External Syntax w/M. L. Wilson	Syntax	Programming	00/00/00	unpublished

Federal Systems Division	FSD	Complex systems	11/22/68	pres. at S. Amer. Cust. Engr. & Mgmt. Technical Conf., Lima, Peru, 11/22/68
Finite Vocabulary Theorem, The	Vocabulary theorem	Human comm. theorem	00/00/00	unpublished
Fixed Price Contracting Principles for Chief Programmer Teams w/F. T. Baker	Chief prog. teams	Price contracting	03/00/70	unpublished
F-Key, The	Frustration key	Software development	08/20/82	unpublished
Flowchart Programs	Flowcharts	Programming	00/00/00	unpublished
Flowchart Theorems	Flowcharts	Flowchart theorems	00/00/00	unpublished
Football	Football	NFL scheduling	various	several papers
Formal Languages	Languages	Syntax & semantics	00/00/00	unpublished
For Want of a Nail - The Case for FSD as a National Asset	IBM objectives	FSD, national asset	10/00/72	unpublished
FSD Chief Programmer Team Experiment, The	Chief programmer team	Programming	02/09/72	unpublished
FSD Software Engineering Design Practices	SW engr. design	FSD SW engr. prac.	07/18/79	pres. IBM Houston
FSD Systems/Software Project Baselines	Sys./SW projects	FSD management	04/12/77	unpublished
Function Concepts and Notation	Function concepts	Function notation	08/15/78	unpublished
Function Equations and Their Solutions	Function equations	Programming	00/00/00	unpublished

Function Expressions and Structured Programs	Function expressions	Structured programs	00/00/00	unpublished
Functional Semantics w/R. Hamlet	Functional semantics	Programming	summer83	unpublished
Functions	Functions	Programming	08/07/74	unpublished
Function Semantics for Pascal, A	Function semantics	Pascal	12/11/79	unpublished
Function Semantics for Sequential Programs	Function semantics	Seq. programs	10/00/80	pres. at IFIP Congress 80 Tokyo, Melbourne - publ. in <u>Proceedings</u> of same
Functions and State Machines	Functions	State machines	09/23/77	unpublished
Future of Scientific Computation, On the	Scientific comput.		08/00/71	unpublished

Game Chart, Super Bowl XV	Football	Game chart	01/25/81	unpublished
Game Theoretic Organization Analyses	Game theory	Comp. org.models	01/09/61	Mathematica, prep. for Org. & Mgmt. Sem., Columbia Univ., NY, 1/9/61
Game Theory and Mathematical Programming	Game theory	Math. programming	01/19/60	Mathematica, pre. for REMP-12 Natl. Sec. Agency, Ft. Meade
Gaps in Systems of Coplanar Satellites	Coplanar satellites	Math. techniques	10/29/62	RCA, unpublished
General Bulk Mail Network, A	Mail network	Network	05/15/70	unpublished
Generalized Fermat Principle, A	Fermat principles	Math. techniques	03/20/63	unpublished
General Theory of Marketing, A	Marketing	Marketing theory	00/00/00	unpublished
Giant String Structures in Space	String structures	Math. techniques	08/23/65	unpublished

Handicapping Hands in Contract Bridge	Bridge	Games	09/21/81	unpublished
Hardware Description Methodology and Language	Hardware desc. meth.	Hardware desc. lang.	12/17/82	unpublished
Hardware Design to Cost	Hardware design	Hardware develop.	11/10/83	unpublished
Hearts	Games	Programming	02/00/75	unpublished
Heuristics for the Post Office Network Problem	Mail network	Network problems	05/12/70	unpublished
High Performance Systems Software	Oper. sys. dev.	Programming	09/00/69	unpublished
High Productivity in Software by Getting it Right the First Time	Zero defect	SW development	05/00/80	pres. at DPMA 80 convention
Hopkins Programming Assignments	Programming	Hopkins assignments	10/01/74	unpublished
How to Buy Quality Software	SW procurement	Structured programming	07/00/74	unpublished
How to Buy Quality Software Systems	SW procurement	SW systems	06/00/74	unpublished
How to Make Exceptional Performance Dependable and Manageable in Software Engineering	SW engr. performance	Programmers	1980	COMPSAC 80, IEEE

How to Measure Football Offense and Defense - 'Blaise Pascal'	Football	Par scoring	09/00/71	unpublished
How to Solve the Programming Estima tion Problem by Design to Cost Methodology	Design to cost	Programming	06/04/75	unpublished
How to Write Correct Programs and Know It	Zero defect	Programming	12/00/72	unpublished
How to Write Correct Programs and Know It	Zero defect	Programming	10/17/74	pres. NSA, Ft. Meade, MD
How to Write Correct Programs and Know It	Zero defect	Programming	04/21/75	Proc. 1975 Intl. Conf. on Reliable Software, ACM SIGPLAN Not.,4/21/75 Also reprinted in Software Productivity, article 16.
Human Productivity in Software Development	SW development	Programming	09/22/76	unpublished
Hyperbolic Location Techniques, Notes on	Hyperbolic location	Math. techniques	00/00/00	unpublished

IBM Chief Programmer Team, The	Chief Programmer Team	Programming	01/26/71	unpublished
IBM Computer Mathematics Center, An	Computer center	Mathematics center	07/11/67	unpublished
IBM Information Automat, The	Information automat	Processing system	03/00/74	unpublished
IBM News Editorial	Programmer prod.	Programming	02/19/68	unpublished
Idea of a File, The	File	Programming	00/00/00	unpublished
Idea of an Integrated Operating System, The	Operating system	Programming lang.	09/00/69	unpublished
Idea of a Table Processing Unit in a Computer System, The	Table proc. unit	Computer system	10/00/68	unpublished
Ideas on Programmer Productivity	Programmer prod.	Programming	00/00/00	unpublished foils
Implicit Mathematical Decision Criteria	Math & bus. oper.	Math. techniques	08/30/55	GE, pres. at Joint Mtg. of Econometric Soc. & the Soc. for Indus. & Applied Math. Univ. of Michigan, 8/30/55
Importance of Management Commitment to Top Down Programming, On the	Top down programming	Management	07/00/72	unpublished
Impromptu Code Reading Experiment, An	Code reading exp.	Programming	05/14/79	unpublished
Improved Programming Technologies, Management Overview	Programming tech.	Program dev.	06/00/76	printed by IBM GE19-5086-1, World Trade Systems Center, Zoetermeer, The Netherlands
Incentive Compensation for Direct Labor	Incentive income	Management	06/08/70	unpublished
Incremental Design to Cost Contract (IDC), An	Design to cost	Reliability	05/18/79	unpublished

Indexed Data Structures	Data structures	Trees	09/00/72	unpublished
Information Automat, An w/M. L. Wilson	Information automat	Oper. system	01/00/73	unpublished
Information Content of Fingerprints, The (3.0)	Fingerprints	Classif. & retrieval	00/00/00	unpublished
Information Content in Patterns, On	Patterns	Computer graphics	1980	<u>Computer Graphics & Image</u> Processing, Vol. 14, 1980
Information Content in Patterns, On	Patterns	Computer graphics	00/00/00	handwritten draft
Introduction to the Information Automat, An w/M. L. Wilson	Information automat	Oper. system	05/07/76	FSD-76-0099
Information Automat Kernel System: Storage Management Procedures and Data Structures w/M. L. Wilson	Information automat	Kernel oper. sys.	00/00/00	unpublished
Information Automat: A New Level of System Responsiveness, The w/Jay Arnold	Information automat	Oper. system	00/00/00	unpublished
Information Automat in a Large Data Processing Complex, The	Information automat	Data processing	05/13/75	unpublished
Information Automat - Ten Year Plan	Information automat	Product devel.	04/27/78	unpublished
Information and Equilibrium in Competition	Info. and equilibrium	Marketing	00/00/00	unpublished

Information Systems: Analysis and Design w/R. C. Linger	Info. system analysis	Info system design	1983	early version of <u>Principles</u> of Information Systems and Design
Instant Insanity	Puzzle	Game	09/00/68	unpublished
Integral-minimal 1-realizations of Threshold Functions, On	Functions	Threshold function	07/12/62	unpublished
Integrated Operating System for System/360, An	0S/360 ·	Operating system	04/00/69	unpublished
Integrating Operations Research Into a Business	Operations research	GE methods	05/00/56	GE, <u>Industrial Quality Control</u> Vol. 12, #11, May 1956
Intermediate Software Product Deliveries	SW deliveries	SW devel.	01/17/79	unpublished
Intellectual Control of Computers, The,	Data processing	Intel. control	02/00/82	pres. as Frontiers of Science Lecture, Univ. Fl., and many other places <u>Technical Directions</u> , Vol. 9, #1, 1983
Interface Problems in Software Development (A Note on Zero Defect Software)	Zero defect SW	Programming	09/02/82	unpublished
Intermittent Airborne Radar Search for Submarines	Radar search	Submarines	01/27/64	unpublished
Inventory Valuations - An Analytic Technique	Recursive inventory	Math. techniques	10/00/61	<u>Management Science,</u> Vol. 8, #1, Oct. 1961

Ion-Exchange Electric Engine Process,A w/K. Fischbeck	n Ion exchange	Particle velocity	00/00/00	unpublished
IRAD Portfolios, On	IRAD projects	Math. techniques	06/16/71	unpublished
Is Programming Manufacturing or Engineering?	Programming	Management	04/06/77	unpublished
Isosceles Triangle, An	Isosceles triangle	Math. techniques	08/19/69	5th floor bulletin board, Technology Square, Cambridge, MA
Iterative If as a Primitive Instruction, The	Iterative if	Programming	10/31/67	unpublished
Iterative Methods for Minimization	Iterative methods	Programming	00/00/00	unpublished

JCL Programming Assignment	JCL programming	Languages	02/04/71	unpublished
John Wooton's School of Basketball	Basketball	Human performance	01/28/83	unpublished
Kernel System for Information System Development and Operation, A	Kernel system	Sys. dev. & oper.	00/00/00	unpublished
Kernel Software System, A	Kernel ssystem	0S/360	00/00/00	unpublished
Knudsen Tubes	Knudsen tubes	Math. techniques	00/00/00	handwritten draft

Land Distance Calculations	Land distance	Math. techniques	09/00/70	unpublished
Large Space Structures	Space structuresq	Math. techniques	02/11/66	unpublished
Learning to Program Computers	Programming	Structured programming	07/00/73	unpublished
Lexico Scan Problem, A	Character stream	Programming	00/00/00	unpublished
Lexicographic Dual Simplex Linear and Integer Program Algorithms	Algorithms	Programming	08/29/62	unpublished
Linear Equation Algorithm	Algorithm	Linear equation	06/07/62	unpublished
Linear Programming w/R. Gomory	Linear programming	Programming	00/00/00	unpublished
Linear Programming	Linear programming	Programming	05/08/62	unpublished
Linear Programming Development, Note or	n Linear programming	Programming	10/10/72	unpublished
Location and Tracking Theory - General Concepts	Location theory	Tracking theory	02/16/62	unpublished
Logic and Analysis in Corporate Organization	Logic and analysis	Corporation org.	01/08/62	plans for NY Univ. Conf.
Logistics	Logistics	Systems	07/25/57	NY, unpublished
Long Live 38!	S/38	Zero defect SW	00/00/00	unpublished foils

Machine-Intuitive Iterative Solution Procedure, A	Iterative process	Math. techniques	00/00/00	unpublished
Machine Word Organization for Scientific Computation, On	Scientific computation	Machine word org.	02/27/64	unpublished
Making the Right Contract and Contract Right	Contract preparation	Marketing	08/01/69	unpublished
'Making the Right Contract' and 'Making the Contract Right,' On	Contract preparation	Marketing	01/06/70	unpublished
Management of Software Engineering, The,	Software engineering	Management	05/02/79	pres. Natl. Acad. Sci., Natl. Res. Council, Space Sci. Board, Committee on Data Mgmt. & Computation foils
Management of Software Engineering, The	Software engineering	Management	07/09/79	unpublished
Management of Software Engineering, The	Software engineering	Management	1978	pres. at ECI Conf., Italy
Management of Software Engineering, The	Software engineering	Management	05/04/82	pres. II Software Technology Seminar, Capri, Italy
Management of Software Engineering, The. Part I: Principles of Software Engineering	Software engineering	Management	02/00/81	<u>IBM Systems Journal</u> Vol. 19, #4, 1980
Managing Complexities and Scientific Simplicities	Management	Scientific work	06/13/57	GE, banquet pres. Seminar on Techniques of Industrial Oper. Res., Ill.Inst.Tech.

Managing and Motivating Programming Personnel	Management	Programmers	01/00/73	unpublished
Managing System Development Through All Its Phases	Management	System development	11/29/77	unpublished
Mapping and Surveillance Operation in the Arctic, A	Mapping operation	Artic surveillance	01/04/62	unpublished
Marketing as a Science	Marketing, a science	Marketing	09-10/61	Harvard Business Review SeptOct. 1961
Marketing Policy - The New Technology in Programming	Marketing policy	Programming	05/00/73	unpublished
Mathematical Decision Theory	Decision theory	Math. techniques	07/03/56	unpublished
Mathematical Foundations for the Analysis of Round Off Errors	Round off errors	Math. techniques	10/11/65	unpublished
Mathematical Foundations for the Semantics of Data Processing	Syntax	Semantics	12/13/76	unpublished
Mathematical Foundations for Structured Programming	Structured prog.	Math. techniques	02/00/71	IBM <u>Chief Programmer</u> Team Operations
Mathematical Inference - A Case History	Math. inference	Math. techniques	10/17/55	unpublished
Mathematical Notation, Some	Sets	Math. techniques	09/00/69	unpublished
Mathematical Perspective, A	Programming	Structured programming	00/00/00	unpublished
Mathematics Perspectives, Some	Math. perspectives	Mechanics, math.	04/16/68	unpublished

Mathematical Preliminaries	Progr. language	Syntax & semantics	09/00/74	unpublished
Mathematical Programming	Math. programming	Linear programming	08/00/58	unpublished
Mathematical Programming in Business Operations	Math. programming	Business operations	03/26/56	unpublished
Mathematical Programming and Business Systems Research	Math. programming	Bus. sys. research	03/15/57	unpublished
Mathematical Research and Statistical Thought	Math. research	Statistics	00/00/00	unpublished
Mathematical Studies in Marketing	Math. & business	Marketing	07/06/59	Mathematica, lectures given at College of Engineering, Univ. of Michigan,7/6-7/59
Mathematical Theory of Promotional Competition, A	Game theory	Competition	05/00/59	unpublished
Mathematical Theory of Strictly Competitive Games, The	Game theory	Math. techniques	00/00/00	unpublished
Mathematics and Christianity	Math. defined	Christianity	03/19/61	pres. at First Presby. Church, Princeton, NJ
Mathematics and the Managerial Imagination	Math. as a tool	Management	00/00/00	Mathematica, based on lec- tures given at Univ. of Michigan, Indus. Res. Inst.
Mathematics and the Managerial Imagination	Math. as a tool	Management	05/04/59	Mathematica, pres. at Industrial Research Inst., Buck Hill Falls, PA,5/4/59

Mathematics and the Managerial Imagination	Math. as a tool	Management	02/20/62	unpublished
Mathematics of Structured Programming, The	Structured progr.	Functions	08/07/74	unpublished
Maximizing Ratios, On	Maximizing ratios	Math. techniques	08/10/66	unpublished
Measurement in Business Operations	Measurements	Business operations	04/06/70	unpublished
Measurement of Fund Performance, On the	Measurement	Fund performance	12/00/70	The Journal of Finance, Vol. 25, #5, Dec. 1970
Measurements of Program Complexity	Measurement	Program complexity	08/00/69	unpublished
Microprogrammed Variable Format Floating Point Arithmetic	Floating point	Microprogramming	09/07/66	unpublished
Minimization by Direct Search	Numerical minimiz.	Direct search	01/00/68	unpublished
Mirrors	Mirrors	Physical prop.	09/26/75	unpublished
Modular Design Example, A	Modular design	Programming	02/02/79	unpublished
Multiechelon Market Structures	Marketing	Product dev.	00/00/00	unpublished
Multi-regional Competition	Marketing	Competition	1958	unpublished
Multi-regional Competition, A Study in	Marketing	Competition	04/00/59	Mathematica

Navy AADC Operating System	Operating system	Parnas methodology	11/21/74	unpublished
Navy Supply System Research, Study 1 w/W. R. Allen, M. L. Balinski D. Orr, R. S. Pinkham	Navy supply system	Decision processes	06/00/60	Mathematica
New Math for Committee and Group Decisions, The	New math	Decision processes	11/00/69	unpublished
New Math of Computer Programming, The	New math	Programming	01/00/75	<u>Comm. ACM</u> , Vol. 18, #1, January 1975
New Math of Computer Programming, The (In honor of Alston S. Householder)	New math	Programming	08/00/74	IBM & Johns Hopkins Univ.
Next Generation Software	Software production	Software mainten.	10/26/67	unpublished
NFL Scheduling Program, The	Football	Scheduling	1970	unpublished
Numberical Problem Solving Compiler, A Proposal for	Numerical compiler	Compiler	00/00/00	unpublished
Numerical Problem Solving Language and Compiler	Numerical problems	Languages	09/00/68	unpublished

Offer to Organize Conferences in the Problems of Bargains and Agreements, An	Conference organiz.	Bargains & agreements	01/14/60	Mathematica, sub. to Inst. of Defense Analysis, Wash.,DC
Office of Naval Research Deterrence Study A Preliminary Statement of Aims and Objectives	Missile deterrence	Missile systems	09/09/60	Mathematica, for Navy Research
Operational Sciences in the OR and S Survey Course	Operational sciences	Business operations	03/13/56	NY, unpublished
Operations Research in Marketing	Operations research	Marketing	08/27/57	GE, unpublished
Optimal Rocket Thrust Programs	Rocket thrust	Math. techniques	07/24/62	unpublished
Optimization Problems	Optimization prob.	Math. techniques	01/03/62	unpublished
Optimization Theory	Optimization theory	Math. techniques	05/18/64	unpublished
OR and S As Manageable Work	Operations research	Business oper.	03/00/57	Adv. Management Course, Crotonville, NY, Mar. 1957
OR and S Personnel Development Service (OR & S Survey Course)	Operations research	Personnel dev.	01/16/56	NY, unpublished
ORBIT/360	Orbit comp. sys.	Programming	00/00/00	unpubl. technical seminar
Organization and Rigor in IBM Software Development	Software development	Org. and rigor	07/19/76	part of memo to F.T.Cary
Organized Decision Making	Decision making	Management	09/00/55	GE, <u>Naval Res Logistics</u> <u>Quarterly</u> , Vol. 2, 3, 9/55
OS/360 Chief Programmer Teams	Chief prog. teams	0 \$/360	05/00/69	unpublished
OS/360 Programming	OS/360	Programming	1970?	unpublished
Oscillatory Behavior in Systems	Business system	Math. techniques	04/30/57	NY, unpublished
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PL360 Operating System, A	PL360 oper. sys.	Oper. system	00/00/00	unpublished
PL7094 and the Johns Hopkins Compiler	PL7094	J.Hopkins compiler	00/00/00	unpublished
Plan of Organization and Operation Software Engineering and Technology Department, FSD	SW engr. & tech. dept.	SW engr. org. & oper.	1978	unpublished
Player Win Averages, A Computer Guide to Winning Baseball Players w/Eldon G. Mills (brother to H.D.)	Baseball	Statistics	1970	paperback book, publ. by A. S. Barnes & Sons, Cranbury, NJ
Poker Rules, Simplified	Poker	Games	1964	unpublished lecture on Competitive Anal., WSC
Polytechnic Institute of New York	Poly. Inst. NY	SW symposium	09/23/77	unpublished
Position Velocity Determination by Range - Range Rate Measurements	Velocity	Range measurements	03/25/68	unpublished, attach. memo
Practical Theory for Marketing Decisions	Marketing theory	Decision making	00/00/00	Mathematica, banquet talk repr. from <u>Proc. of the</u> <u>8th Annual Miami Univ.</u> <u>Sem. in Marketing Mgmt.</u>
Pricing and Performing Contractual Work	Contract pricing	Contract performance	12/20/76	unpublished
Principles of Software Engineering Part I of The Management of Software Engineering (addn parts by others)	Software engineering	Management	1980	<u>IBM Systems Joural</u> Vol. 19, #4, 1980
Probabilism and Macrioscopics in Business Operations	Business operations	Probabilism	08/26/57	NY, unpublished

Problem of Cheating in Bridge, The	Bridge	Games	09/00/72	unpublished
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Procurement of a Seasonal Raw Material, A Study in the	Manufacturing	Raw material proc.	00/00/00	unpublished
Production Smoothing in the Two Bin Policy	System operations	Math. techniques	07/19/57	unpublished
Production Programming	Prod. programming	Programming	00/00/00	unpublished
Productivity in High Technology Industries	High productivity	Business operations	00/00/00	unpublished
Professional Evaluation and Promotion	Prof. evaluation	Personnel	01/00/80	unpublished
Professional Programming Teams	Programmer teams	Programming	01/00/73	unpublished (INFOTECH paper?)
Professional Promotion Policy, A (Concept Paper)	Prof. evaluation	Personnel	00/00/00	unpublished
Program Control Logic	Prog. control logic	Programming	09/00/69	unpublished
Program Control Logic	Prog. control logic	Programming	10/00/69	unpublished
Program Correctness - Theoretical Background	Program correctness	Programming	12/00/70	unpublished
Program Correctness Illustrations	Program correctness	Programming	09/21/72	unpublished, but refers to IBM report, FSC 72-6012 Mathematical Foundations for Struc. Programming

Program Correctness, Notes on	Program correctness	Programming	03/01/71	unpublished
Program Definition Language	PDL	Programming	09/09/74	unpublished
Program Design, Module Design, and System Design Practices	Program design	System design	08/11/78	unpublished
Program Design Without Arrays and Pointers	Program design	Programming	08/00/83	pres. at SHARE 61 (8/83) Melbourne (9/5/83) Tucson (10/83)
Program Documentation, On	Program docum.	Programming	01/26/71	unpublished
Program Entropy Examples	Program entropy	Programming	00/00/00	unpublished
Programmable Submachines	Submachines	Programming	1970?	unpublished
Programmer Productivity Through Individual Responsibility	Progr. productivity	Programming	02/00/68	unpublished
Programming in the Large	Program design	Programming	00/00/00	unpublished foils
Programming as a Precision Activity	Precise programming	Programming	1974	Infotech State of the Art Report 20, Computer Sys. Reliability, 1974
Programming Language for All Reasons, A	Programming lang.	Programming	02/00/70	unpublished
Programming Measurements and Productivity in FSD	Progr. measuring	Progr. productivity	06/29/79	unpublished

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Programming Production Measurement	Progr. measuring	Progr. production	00/00/00	unpublished
Programming Production Library OS/360 - Librarian's Guide	OS/360	Progr. library	1970	unpublished
Programming Techniques From Private Art to Public Practice	Progr. techniques	Programming	1980	unpublished
Programs as Mathematical Objects	Math. objects	Programs	01/19/82	unpublished
Progressive World Federation, On a	World federation	Natl. institutions	00/00/00	unpublished
Project Control and Productivity Using the Programming Production Library	Progr. library	Proj. control	02/00/69	unpublished
Proprietary Software, Notes on	Propriet. software	Software dev.	00/00/00	unpublished
Proprietary Support Software	Propriet. software	Support software	01/00/70	unpublished
Proteus Considerations	Progr. documentation	Programming	02/02/76	unpublished
Proving Arbitrary Programs Correct by Direct Arguments	Progr. correctness	Programming	10/29/74	unpublished
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Proving Program Correctness by Direct Arguments	Progr. correctness	Programming	10/00/74	unpublished
Psychology of Quality, The SDD Programming Symposium Panel	Quality	Programmers	03/00/72	unpublished panel disc.

Quality Performance in Assembly Lines, Software and Football	Quality performance	Assembly lines	10/02/80	unpublished
Quantum Mechanic Limitations in Serial Computers	Serial computers	Quantum mechanics	10/00/68	unpublished
Question of Computer Science at Wesleyan, The - (Preliminary Ideas)	Computer Science	Wesleyan Univ.	09/21/67	unpublished

Random Projections of Plane Regions, On	Random projections	Math. techniques	11/30/61	unpublished
Random Bases for Automation	Automation	Business operations	1955	GE, pres. at ASME Conv.
Reading Computer Programs as a Managerial Activity	Reading programs	Management	1980	<u>Def. Sys. Mgmt. Rev.</u> Vol. 3, #3, summer 1980
Ronald Reagan's Baseball Broadcasts	Baseball	Ronald Reagan	1982	unpublished
Real Time Design Practice	Real time design	Program design	00/00/00	unpublished
Recognition Complexity in Address Classification	Mail sorting, auto.	Programming	01/13/72	unpublished
Recursive Integer Programming Algorithm, A	Algorithm	Programming	09/17/62	unpublished
Recursive Position Estimation Process, A	Recursive process	Math. techniques	02/14/68	unpublished
Reduction Counting Logic	Reduc. counting logic	Math. techniques	00/00/00	unpublished
Regular Expressions for Data Usage Abstraction in Structured Programs w/R. C. Linger	Data abstraction	Struc. programming	03/00/77	IBM SW Engr. Series, Adv. SW Tech.
Regular Games	Regular games	Game theory	10/05/61	Amer. Sci. Complex Inc., unpublished
Reliability Considerations, Some	Reliability	Math. techniques	01/04/62	unpublished
Requirements for Developing Systems Evaluation Techniques	System evaluation	Math. techniques	00/00/00	unpublished

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Research in Operations Research and Synthesis	Operations reseach	Gen. sys. theory	02/01/57	pres. MCS Meeting, NY, 2/1/57
Rigid String and Weight Structures in Space	String & weight struc.	Math. techniques	02/11/66	unpublished
Rise and Fall of Greek Science, On the	Greek science	Sci., history	07/09/64	unpublished
Rounding Errors in Algebraic Processes	Round off errors	Algebraic proc.	10/00/65	<u>The Amer. Math.</u> <u>Monthly, Vol. 7</u> 2, #8 October 1965
Round Off Error Analysis 1. Mathematical Foundations	Round off errors	Math. techniques	11/29/66	unpublished
Round Off Errors in Legendre Polynomials, A Note on	Round off errors	Legendre polynomials	03/23/72	unpublished
Round Off Errors in Legendre Polynomials	Round off errors	Legendre polynomials	08/00/71	unpublished

Saddlepoint Formulations	Saddlepoint form.	Math. techniques	04/27/62	unpublished
SAFEGUARD System w/M. M. Kessler	SAFEGUARD system	CENTRAL lang. study	02/06/70	IBM printed
SAT, On	SAT	Scholastic apptitude	00/00/00	handwritten draft
Satellites on the Earth-Sun Line	Satellites	Commer. comm. sys.	07/12/62	unpublished
Satellite Tracking Systems Study	Satellites	Tracking systems	11/00/60	Mathematica
Science of Information Systems, On a	Information systems	System development	09/00/68	unpublished
Search for Subs Surfacing in a Mapped Ice Field	Submarine search	Mapped ice fields	00/00/00	unpublished
Secrets of Exceptional Productivity Performance	Excep. performance	Productivity	03/11/81	unpublished
Secrets of a Mississippi Riverboat Gambler – A Short Play in Two Parts	Miss. boat gambler	Probability	1979	unpublished play
Secrets of a Mississippi Riverboat Gambler - 'Blaise Pascal'	Miss. boat gambler	Pascal	1979	unpublished
Segmented Track-While-Scan Concurrency Algorithm	Track-while-scan	Algorithm	09/22/77	unpublished
Selling Programming Rather than Programmers	Selling programming	Programmers	08/12/70	unpublished
Semantic Calculus	Semantic calculus	Calculus	01/20/81	unpublished

Semantics Based Requirements/ Design Methodology, A	Data proc. systems	System dev.	00/00/00	unpublished
Semantics in the Information Automat: A Common Sense Approach - A Collection of Working notes from an Analysis of,	Information automat	Semantics	03/30/76	unpublished
Sequential Preocessors	Sequential processor	Oper. systems	00/00/00	unpublished
Set Data Abstraction and Its Module, A	Set data abstr.	Module state machine	05/04/78	unpublished
Set Theoretic Concepts in Optimization Problems	Set theory	Optimization probl.	00/00/00	unpublished
Set Theory	Set theory	Math. techniques	00/00/00	unpublished
Smoothing in Inventory Processes	Inventory processes	Business oper.	06/00/60	Mathematica, prepared for Bur. of Supplies & Accounts, US Navy
Smoothing in Inventory Processes	Inventory processes	Business oper.	1967	<u>Essays in Mathematical</u> <u>Economics</u> , 1967
Smoothing in Servo Processes	Servo processes	Math. techniques	04/00/61	<u>Siam Review</u> , Vol. 3, #2, April 1961
SNOBOL Syntax	SNOBOL syntax	Programming	00/00/00	unpublished
Societal Control Systems	Societal systems	Fuel shortage	10/01/74	unpublished
Software, What is (editorial)	Software defined	Software dev.	01/00/79	<u>Software Engineering</u> Exchange, Vol. 1, #2, Jan. 1979
Software of Certifiable Reliability	Cleanroom SW dev.	MTBF	01/10/79	unpublished

Software Development	Data proc. history	Software dev.	12/00/76	<u>IEEE Tran. SW Engr.</u> Vol. SE-2, #4, 12/76
Software Engineering	Software engr.	Math. char. of SW	01/00/77	unpublished
Software Engineering	Software engr.	Math. char. of SW	03/18/77	<u>Science</u> , Vol. 195, #4283, 3/18/77
Software Engineering Education	SW engr. educ.	SW engr. practices	09/00/80	<pre>Proc. IEEE, Vol. 68, #2, Sept. 1980</pre>
Software Engineering - An Emerging Discipline	Software engr.	Software dev.	00/00/00	unpublished foils
Software Engineering in FSD	FSD software engr.	Software engr.	12/19/77	unpublished
Software Engineering in FSD	FSD software engr.	Software engr.	04/18/79	unpublished
Software Engineering - The Next Twenty Years	Software engr.	SW engr. curric.	05/26/82	pres. at AIAA Annual Meeting, Baltimore
Software Engineering - The Next Twenty Years	Software engr.	SW engr. curric.	01/00/84	IBM Tech. Dir. 1984 sometime
Software Engineering in Your Enterprise	Software engr.	SW engr. dev.	06/00/82	Pres. IBM Techn. Fair, Tokyo, 6/10-15/82 and CCUC Conf., Chicago Sept. 1982
Software Engineering in Your Enterprise	Software engr.	SW engr. dev.	06/00/82	<u>Access</u> , trans. into Japanese and printed in IBM Tokyo publ.

Software Engineering in Your Enterprise	Software engr.	SW engr. dev.	10/06/82	pres. Annl. Conf. of AICA, Padova, Italy
<u>Software Engineering Economics</u> by Barry W. Boehm, Comments on	SW engr. econ.	Software dev.	01/20/82	review of book
Software Engineering: Theory and Practice	Software engr.	SW engr. dev.	00/00/00	unpublished abstract
Software Independent Test and Validation	SW testing	SW validation	00/00/00	unpublished
Software Manufacturing	Software manuf.	Software dev.	1978?	unpublished
Software Methodology - Promising Directions	Software dev.	Math. correctness	08/30/76	unpublished
Software Product Reliability Certification	SW reliab. cert.	MTBF	08/31/82	unpublished
Software Quality	Software quality	Software dev.	07/00/81	unpublished
Software Systems Specificiation Methodology	Software systems	Specif. methodology	03/31/80	unpublished foils
SOLVE, An Automatic Problem Solving Technique	SOLVE	Numerical compilers	06/01/67	IBM Tech. Proposal prep. for Office of Naval Res.
Solving Linear Systems by Long Division	Linear systems	Math. techniques	05/15/64	unpublished
Sonar Array Design and Signal Processing	Sonar array design	Signal processing	12/02/66	unpublished

Spiral Approach to Textbook Design, The	Textbook design	Publishing	00/00/00	unpublished
SST	Airfare pricing	Math. techniques	12/08/64	unpublished
Stages in Stepwise Module Refinement	Stepwise refinement	Struc. programming	08/10/79	unpublished
Standards in Elementary Logical Expression	Logic expressions	Set theory	08/02/77	unpublished
State Machines and Their Semantics in Software Engineering	State machines	SW engr. dev.	11/08/77	Proc. COMPSAC77, 11/8-11/77
Statistical Validation of Computer Programs, On the	Computer programs	Stat. validation	07/00/70	IBM Techn. Report
Statistics in Managerial Control Systems	Manag. control sys.	Statistics	03/17/64	Manag. Stat. Course, Amer. Manag. Sys.
Stepwise Function Refinement	Stepwise refinement	Struc. programming	00/00/00	unpublished
Stepwise Process Decomposition	Processing systems	System development	09/26/75	unpublished
Stepwise Reorganization	Stepwise refinement	Struc. programming	09/04/74	unpublished
Stochastic Properties of Elementary Logistic Components	Logistics compon.	Math. techniques	02/27/59	Princeton, Econometric Res. Program, Res. Memo No. 9
Stock Price Extrapolation Procedure, A (Appendix)	Stock price	Math. techniques	07/15/64	unpublished
Strategic Aspects of Breakeven Charts	Breakeven charts	Business systems	08/21/57	NY, unpublished

String Charts	String charts	Programming	00/00/00	unpublished
Strings	String operations	Programming	00/00/00	unpublished
Structural Description of The New York Times Thesaurus of Descriptors, A	NY Times thesaurus	Program design	07/25/69	unpublished
Structured Programming	Struc. programming	Programming	10/00/70	unpublished
Structured Programming (a course)	Struc. programming	Course	09/11/74	unpublished
Structured Programming - Elements of Logical Expression	Struc. programming	Logical expression	10/09/74	unpublished
Structured Programming in IBM	Struc. programming	Programming	01/25/71	unpublished
Structured Programming in Large Systems	Struc. programming	Large systems	11/00/70	unpublished
Structured Programming - Problems and Solutions Using Program Definition Language w/R. C. Linger	Struc. programming	PDL	06/00/74	unpublished
Structured Programming: Theory and Practice w/R. C. Linger	Struc. programming	Teaching materials	05/00/82	prepared to support book of same name
Structured Programming in University Education	Struc. programming	Univ. courses	01/26/71	unpublished
Structured Programming - Update and Extensions	Struc. programming	Programming	08/29/79	pres. SHARE 53, NY 8/29/79

Structured Software Design	Struc. programming	Software design	1980	unpublished
w/R. C. Linger				
Structure of a Computing Profession, On the	Computing profession	Computer systems	07/00/72	unpublished
Structure Syntax and Semantics in Mathematical Logic	Syntax and semantics	Math. logic	08/00/70	unpublished
Structures in Logistics Operations	Logistics operations	Math. techniques	02/27/59	Princeton, Econometric Res. Program., Res. Memo No. 8
Structuring Programs	Struc. programs	Programming	00/00/00	unpublished
Submarine Based Sonar Systems, Ideas in Passive	Sonar systems	Submarine	05/25/67	unpublished
Super Bowl XIV	Football	NFL sched. problem	01/21/80	unpublished
Supersonic Transport System Route Competition Analysis	Supersonic tran.sys.	Competition	07/20/64	unpublished
Super Speed Computing Systems, A Proposal for	Super speed systems	Computer systems	03/23/65	unpublished
Survey of the Theory of Linear Programming, Part II	Linear programming	Simplex method	00/00/00	unpublished
Swapping Sections w/David Gries	Algorithms	Programming	01/00/81	unpublished
Syntax Defined Program Listings	Struc. programming	Programming	00/00/00	unpublished
Syntax-Directed Documentation for PL360	PL360	Syntax-dir. doc.	04/00/70	<u>Comm. ACM</u> , Vol. 13, #4, Apr. 1970

System Capabilities, Reliability and Queues	Operating systems	System dev.	08/21/57	NY, unpublished
System Development Standards	Operating systems	System dev.	12/15/76	unpublished
System Development under Statistical Control	System development	Statistical control	07/16/81	unpublished
System Requirements and Design	Operating systems	System design	03/07/77	unpublished
Systems in Business Operations	Operating systems	Business systems	08/30/57	NY, unpublished
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Systems Programming	Systems programming	Operating systems	09/04/69	unpublished
Systems/Software Engineering Note The Difference Between Design and Detailing	Systems design	Software design	12/06/76	unpublished

Teaching Computer Programming at the University Level	Univ. computer teach.	Programming	00/00/00	unpublished
Team Procedures - From Soccer Teams to Surgical Teams	Team procedures	Restruc. programming	00/00/00	unpublished
Team Structures in Software Engineering	Progr. team struc.	Programming	00/00/00	unpublished
Techniques for the Specification and Design of Complex Programs	Complex programs	Spec. and design	11/07/74	pres. 3rd Texas Conf. on Computing Systems, Univ. Texas, Austin printed in <u>Proc</u> . of same
Teleportation	Teleportation	Teleportaton	03/22/65	unpublished
Terminology for Programming Teams, Personnel and Techniques	Programming teams	Terminology	07/00/73	unpublished
Theory of Relativity as an Under graduate Philosophy Course	Relativity	Philosophy course	01/20/71	unpublished
Three Dimensional Traget Location System, A	Target location	Math. techniques	12/15/61	unpublished
Three Methods of Program Inspection	Program inspection	Verification	04/19/83	unpublished
Top Down Programming in Large Systems	Top down programming	Large systems	1970	<u>Software Productivity</u> , Little Brown, 1983
Top Down System Development	Top down programming	System development	08/24/70	unpublished
Two Dimensional Patterns	Patterns	Math. techniques	09/00/69	unpublished

Ultrareliable Programming	Reliability	Programming	11/00/72	unpublished
Ultrareliable Programs - Procurement and Delivery	Reliability	Programming	02/07/73	unpublished
Undersea Search and Evasion	Undersea maneuvers	Math. techniques	00/00/00	handwritten draft
Understanding and Documenting Programs w/V. R. Basili	Documentation	Programming	04/00/80	Univ. MD, Comp. Sci. Center, Tech. Report TR-884
Understanding and Documenting Programs w/V. R. Basili	Documentation	Programming	05/00/82	IEEE Tran. SW Engr. Vol. SE-8, #3, May 82

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Variable Format Floating Point Numbers	Floating points	Programming	01/05/67	unpublished
Variety of the Lot Run Size Problem, A	Lot run size probl.	Inventorying	00/00/00	unpublished
Vector State Machines	Vector state mach.	State machines	08/00/74	unpublished
Vertically Integrated Business Objectives	Business operations	Pricing	05/21/57	unpublished
Very Low Altitude Satellite Access to Ground Stations	Satellite access	Ground stations	08/29/62	unpublished
Visibility and Measurement in Software Management	Software management	Visibility	07/00/81	unpublished
VSAM Algorithm, Comments on a	VSAM algorithm	Programming	00/00/00	unpublished

Warehouse Problem, A	Warehouse usage	Storage problems	04/26/60	Mathematica, prep. for Veterans Admin., DC
Washington Redskins Win Super Bowl XVII	Football	Super bowl XVII	02/01/83	unpublished
What is a Program	Program defined	Program development	09/07/72	unpublished
Whiledo Equation, The	Whiledo equation	Programming	00/00/00	unpublished
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Whiledos and Initialized Whiledos - Their Functions and Invariants	Whiledo equation	Programming	07/14/77	unpublished
Work of a Process, On the	Work of a process	Math. technique	06/17/70	unpublished
Why Top Down Programming	Top down programming	Struc. programming	07/00/72	unpublished

Zero Defect Software Zero defect SW Reliability 07/26/82 unpublished

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